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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,663	06/20/2003	Antonio Gomez	200309525-1	5679	
22879	7590 12/09/2004		EXAMINER		
	PACKARD COMPAN	LIANG, LEONARD S			
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			ART UNIT	PAPER NUMBER	
FORT COLLINS, CO 80527-2400		2853			

DATE MAILED: 12/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			(A\				
	Application No.		Applicant(s)				
	10/600,663		GOMEZ ET AL.				
Office Action Summary	Examiner	•	Art Unit				
	Leonard S Liang		2853				
The MAILING DATE of this communication ap Period for Reply	ppears on the cove	r sheet with the co	orrespondence add	dress			
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howed by within the statutory mind will apply and will expire te, cause the application to the statutory will expire the statutory that is the statutory that is the statutory will be statutory within the statutory will be statutory wi	ever, may a reply be time nimum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timely he mailing date of this co (35 U.S.C. § 133).				
Status							
1)⊠ Responsive to communication(s) filed on 20.	June 2003.						
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3-7,10-15 and 17-20</u> is/are rejected 7) ⊠ Claim(s) <u>2,8,9 and 16</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consider d.						
Application Papers							
9) The specification is objected to by the Examir	ier.						
10)⊠ The drawing(s) filed on <u>20 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre							
Priority under 35 U.S.C. § 119				•			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been rece nts have been rece ority documents h au (PCT Rule 17.2	eived. eived in Application ave been receive 2(a)).	on No ed in this National	Stage			
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 06/20/03.		Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:		D-152)			
(and Trademark Office							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

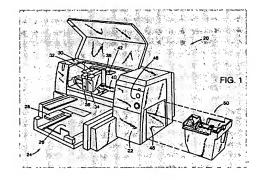
A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-7, 10-12, 15, and 17-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Taylor et al (US Pat 5617124).

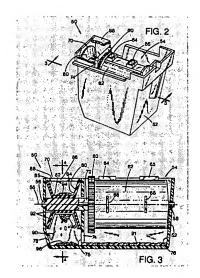
Taylor et al discloses:

• {claim 1} A spittoon system for a printing mechanism having a printhead with a substantially linear nozzle array oriented in a first direction (figure 1, reference 34); a frame (figure 1, reference 52); a roller mounted to the frame for rotation about an axis oriented in the first direction to receive ink spit from the printhead (figure 1, reference 50; figure 2, reference 70)



• {claim 3} a second printhead, wherein the roller is oriented to receive ink spit from the second printhead (figure 1, reference 36)





- {claim 4} a drive motor coupled to rotate the roller (column 2, lines 36-39; column 4, lines 15-46)
- {claim 5} a gear train which couples the motor to the roller (figure 3, reference 60; column 2, lines 36-39; column 4, lines 15-46)
- {claim 6} the frame defines a waste ink reservoir located to receive waste ink from the roller (figure 3, reference 96)
- {claim 7} a liner of an absorbent material located within the waste ink reservoir (figure 3, reference 91)
- {claim 10} A method of purging waste ink from a printhead of a printing mechanism having printheads for dispensing ink (figure 1); positioning at least some of the printheads over rollers; and purging waste ink from the printheads onto the rollers (figure 2-3, reference 70; column 2, lines 31-60)
- {claim 11} the printheads have nozzles which dispense the ink, and the positioning comprises positioning the rollers a substantially uniform distance

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from the nozzles (figure 1, reference 34, 50; column 2, lines 31-60; inherent when printhead moves over service station 50)

- {claim 12} wherein the printheads form a first contour and the positioning comprises positioning the rollers in a second contour similar to the first contour (figure 1, reference 34, 50; column 2, lines 31-60; inherent when printhead moves over service station 50)
- {claim 15} A spittoon system for a printing mechanism having a printhead with a substantially linear nozzle array oriented in a first direction (figure 1, reference 34); means for receiving ink spit from the printhead (figure 1, reference 50); means for rotating the means for receiving ink about an axis oriented in the first direction (figure 2, reference 70)
- {claim 17} means for storing waste ink (figure 3, reference 96)
- {claim 18} means for scraping waste ink from the means for receiving ink (figure 3, reference 90)
- {claim 19} means for scraping waste ink from the means for receiving ink (figure 3, reference 90); means for storing ink waste ink (figure 3, reference 96); means for absorbing waste ink in the means for storing (figure 3, reference 91); wherein the means for rotating comprises a motor and means for transferring rotational motion from the motor to the means for receiving ink (column 2, lines 36-39; column 4, lines 15-46)
- {claim 20} A printing mechanism (figure 1); a chassis defining a printzone and a servicing zone (figure 1, reference 22); a printhead having a substantially linear

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nozzle array oriented in a first direction (figure 1, reference 34); a carriage which moves the printhead through the printzone and the servicing zone (figure 1, reference 38); a frame located in the servicing zone (figure 3, reference 52); a roller mounted to the frame for rotation about an axis oriented in the first direction and located to receive ink spit from the printhead (figure 1, reference 70)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al (US Pat 5617124) in view of Leemhuis (US Pat 6733106).

Taylor et al discloses:

- {claims 13 and 14} a method (as applied to claim 12 above)
- {claim 13} the second contour comprises an arcuate shape (figure 2, reference
 70)
- {claim 14} the second contour comprises a semicircular shape (figure 2, reference 70)

Taylor et al differs from the claimed invention in that it does not disclose:

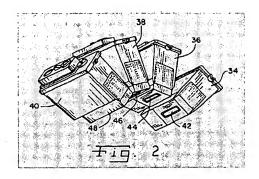
• {claim 13} the first contour comprises an arcuate shape

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• {claim 14} the first contour comprises a semicircular shape

Leemhuis discloses:

• {claim 13} the first contour comprises an arcuate shape (figure 2, reference 42, 44, 46, 48)



• {claim 14} the first contour comprises a semicircular shape (figure 2, reference 42, 44, 46, 48)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Leemhuis into the invention of Taylor et al. The motivation for the skilled artisan in doing so is to gain the benefit of having a printhead contour alignment that more effectively corresponds to the radial nature of the maintenance station.

Allowable Subject Matter

Claims 2, 8-9, and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 2 discloses "further comprising a second roller mounted to the frame for rotation and about a second axis oriented in the first direction to receive ink spit from the second printhead," which was not found, taught, or disclosed in the prior arts.

Claim 8 discloses "a second roller mounted to the frame for rotation and about a second axis oriented in the first direction to receive ink spit from the second printhead; a third roller mounted to the frame for rotation and about a third axis oriented in the first direction to receive ink spit from the third printhead; and a fourth roller mounted to the frame for rotation and about a fourth axis oriented in the first direction to receive ink spit from the fourth printhead," which was not found, taught, or disclosed in the prior arts.

Claim 9 depends from objected claim 8.

Claim 16 discloses "means for rotating said means for receiving ink spit from said second printhead about a second axis oriented in said first direction, said second axis distinct from said axis."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fisher (US Pat 5081472) discloses a cleaning device for ink jet printhead nozzle faces.

Aldrich et al (US Pat 6644779) discloses rotating waste ink accumulation system.

Harmon et al (US Pat 5115250) discloses a wiper for ink-jet printhead.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard S Liang whose telephone number is (571) 272-2148. The examiner can normally be reached on 8:30-5 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Isl LSL

Stephen D. Meier Primary Examiner Page 8